

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.8.d 8 O’Clock (PEER 17) Sweep Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: Signature on File _____
 Collider-Accelerator Department Chairman _____ Date

V. Castillo

4.120.8.d 8 O’Clock (PEER 17) Sweep Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head’s Name (Print): _____ Life Number: _____

Safety Section Head’s Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member’s Name (Print): _____ Life Number: _____

RSC Member’s Name (Sign): _____ Date: ____/____/____

- 1.1 To Sweep Zone 7Z1**
- | | | | |
|--------------------------|-----------------|--|--------------------|
| <input type="checkbox"/> | CLOSE | Gates 7GS1-I/O, 7EL1, 7GH1 and 7MD1 | |
| <input type="checkbox"/> | VERIFY | Gates 7GS1-I/O, 7EL1, 7GH1 and 7MD1 are | CLOSED |
| <input type="checkbox"/> | RESET | Gate 7EL1 and 7MD1 | |
| <input type="checkbox"/> | VERIFY | Gate 7EL1 <input type="checkbox"/> and 7MD1 <input type="checkbox"/> are | RESET |
| <input type="checkbox"/> | PLACE | Peer 17 in Mode 16 | |
| <input type="checkbox"/> | VERIFY | Peer 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | ACTIVATE | Check station 7CS1 | |
| <input type="checkbox"/> | VERIFY | Check station 7CS1 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 7CS2 | |
| <input type="checkbox"/> | VERIFY | Check station 7CS2 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 7CS3 | |
| <input type="checkbox"/> | VERIFY | Check station 7CS3 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 7CS4 | |
| <input type="checkbox"/> | VERIFY | Check station 7CS4 indicator (Area Secured) | ON |
| <input type="checkbox"/> | EXIT | Gate 7GE1 with Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 7Z1 | SWEPT |
- ☐ Check for test acceptance to Sweep Zone 7Z1

- 1.2 To Sweep Zone 8Z1**
- | | | | |
|--------------------------|-----------------|--|--------------------|
| <input type="checkbox"/> | CLOSE | Gates 8ED1 and 8GE1 | |
| <input type="checkbox"/> | VERIFY | Gates 8ED1 and 8GE1 are | CLOSED |
| <input type="checkbox"/> | PLACE | Peer 17 in Mode 16 | |
| <input type="checkbox"/> | VERIFY | Peer 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | ACTIVATE | Check station 8XCS1 | |
| <input type="checkbox"/> | VERIFY | Check station 8XCS1 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 8XCS2 | |
| <input type="checkbox"/> | VERIFY | Check station 8XCS2 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 8XCS3 | |
| <input type="checkbox"/> | VERIFY | Check station 8XCS3 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 8XCS4 | |
| <input type="checkbox"/> | VERIFY | Check station 8XCS4 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 8XCS5 | |
| <input type="checkbox"/> | VERIFY | Check station 8XCS5 indicator (Area Secured) | ON |
| <input type="checkbox"/> | EXIT | Gate 8GE1 with Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 8Z1 | SWEPT |
- ☐ Check for test acceptance to Sweep Zone 8Z1

1.3	To Sweep	Zone 8Z2	
	CLOSE	Gates 8GE2, 8MD1, 8EL1, 8ED2 and 9GS1-I&O	
<input type="checkbox"/>	VERIFY	Gates 8GE2, 8MD1, 8EL1, 8ED2 and 9GS1-I&O are	CLOSED
	RESET	Gate 8EL1, 8ED2 and 8MD1	
<input type="checkbox"/>	VERIFY	Gate 8EL1, 8ED2 <input type="checkbox"/> and 8MD1 <input type="checkbox"/> are	RESET
	PLACE	Peer 17 in Mode 16	
<input type="checkbox"/>	VERIFY	Peer 17 is in Controlled Access	MODE 16
<input type="checkbox"/>	VERIFY	MCR sees Zone 8Z2	NOT SWEPT
	ACTIVATE	Check station 8CS6	
<input type="checkbox"/>	VERIFY	Check station 8CS6 indicator (Area Secured)	BLINKS ONCE
	ACTIVATE	Check station 8CS5	
<input type="checkbox"/>	VERIFY	Check station 8CS5 indicator (Area Secured)	BLINKS ONCE
	ACTIVATE	Check station 8CS3	
<input type="checkbox"/>	VERIFY	Check station 8CS3 indicator (Area Secured)	BLINKS ONCE
	ACTIVATE	Check station 8CS4	
<input type="checkbox"/>	VERIFY	Check station 8CS4 indicator (Area Secured)	BLINKS ONCE
	ACTIVATE	Check station 8CS2	
<input type="checkbox"/>	VERIFY	Check station 8CS2 indicator (Area Secured)	BLINKS ONCE
	ACTIVATE	Check station 8CS1	
<input type="checkbox"/>	VERIFY	Check station 8CS1 indicator (Area Secured)	ON
	EXIT	Gate 8GE2 with Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 8Z2	SWEPT
<input type="checkbox"/>	Check for test acceptance to Sweep Zone 8Z2		

1.4 Test of retention of sweep with legal opening of gate 7GS1 with Peer 7 in CA, Mode 16 and Peer 17 in CA Mode 16 and loss of sweep with illegal opening of gate 7GS1.

	PLACE	Peers 7 & 17 in Controlled Access	
<input type="checkbox"/>	VERIFY	Peer 7 is in	MODE 16
<input type="checkbox"/>	VERIFY	Peer 17 is in	MODE 16
<input type="checkbox"/>	VERIFY	The warning lights and LED message on both sides of the gate indicate: Call MCR for Crossover Amber	ON
	SWEEP	Zone 6Z2	
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	SWEPT
	SWEEP	Zone 7Z1	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	SWEPT
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows: Area Secured (S11) Amber Area Secured (S10) Amber	ON ON
	OPEN	Gate 7GS1-I with Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 7 is in	MODE 16
<input type="checkbox"/>	VERIFY	MCR sees Peer 17 is in	MODE 16
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows: Area Secured (S11) Amber Area Secured (S10) Amber	ON ON
	CLOSE	Gate 7GS1-I	

	OPEN	Gate 7GS1-I without Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 7 is in	MODE 16
<input type="checkbox"/>	VERIFY	MCR sees Peer 17 is in	MODE 16
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	OFF
		Area Secured (S10) Amber	OFF
	CLOSE	Gate 7GS1-I	

- ☐ Check for test acceptance of retention of sweep with legal opening of gate 7GS1 with Peer 7 in CA, Mode 16 and Peer 17 in CA, Mode 16 and loss of sweep with illegal opening of gate 7GS1

1.5 Test of retention of sweep with legal opening of gate 7GS1 with Peer 7 in XA, Mode 17 and Peer 17 in CA Mode 16 and loss of sweep with illegal opening of gate 7GS1

	PLACE	Peer 7 Controlled Access, Mode 17	
<input type="checkbox"/>	VERIFY	Peer 7 is in	MODE 17
<input type="checkbox"/>	VERIFY	Peer 17 is in Controlled Access	MODE 16
<input type="checkbox"/>	VERIFY	The warning lights and LED message on both sides of the gate indicate:	
		Call MCR for Crossover Amber	ON
	SWEEP	Zone 6Z2	
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	SWEPT
	SWEEP	Zone 7Z1	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	SWEPT
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	ON
		Area Secured (S10) Amber	ON
	OPEN	Gate 7GS1-I with Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 7 is in	MODE 17
<input type="checkbox"/>	VERIFY	MCR sees Peer 17 is in	MODE 16
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	ON
		Area Secured (S10) Amber	ON
	CLOSE	Gate 7GS1-I	
	OPEN	Gate 7GS1-I with without Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 7 is in	MODE 17
<input type="checkbox"/>	VERIFY	MCR sees Peer 17 is in	MODE 16
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	OFF
		Area Secured (S10) Amber	OFF
	CLOSE	Gate 7GS1-I	

- ☐ Check for test acceptance of retention of sweep with legal opening of gate 7GS1 with Peer 7 in XA, Mode 17 and Peer 17 in CA, Mode 16 and loss of sweep with illegal opening of gate 7GS1.

1.6 Test of retention of sweep with legal opening of gate 7GS1 with Peer 7 in XA, Mode 17 and Peer 17 in XA Mode 17 and loss of sweep with illegal opening of gate 7GS1.

	PLACE	Peers 7 & 17 in Controlled Access, Mode 17	
<input type="checkbox"/>	VERIFY	Peer 7 is in	MODE 17
<input type="checkbox"/>	VERIFY	Peer 17 is in	MODE 17
<input type="checkbox"/>	VERIFY	The warning lights and LED message on both sides of the gate indicate:	
		Call MCR for Crossover Amber	ON
	SWEEP	Zone 6Z2	
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	SWEPT
	SWEEP	Zone 7Z1	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	SWEPT
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	ON
		Area Secured (S10) Amber	ON
	OPEN	Gate 7GS1-I with Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 7 is in	MODE 17
<input type="checkbox"/>	VERIFY	MCR sees Peer 17 is in	MODE 17
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	ON
		Area Secured (S10) Amber	ON
	CLOSE	Gate 7GS1-I	
	OPEN	Gate 7GS1-I with without Simultaneous Release	
<input type="checkbox"/>	VERIFY	MCR sees Zone 7Z1	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Zone 6Z2	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 7 is in	MODE 17
<input type="checkbox"/>	VERIFY	MCR sees Peer 17 is in	MODE 17
<input type="checkbox"/>	VERIFY	7GS1 gatebox lights are as follows:	
		Area Secured (S11) Amber	OFF
		Area Secured (S10) Amber	OFF
	CLOSE	Gate 7GS1-I	

- ☐ Check for test acceptance of retention of sweep with legal opening of gate 7GS1 with Peer 7 in CA, Mode 17 and Peer 17 in CA, Mode 17 and loss of sweep with illegal opening of gate 7GS1.

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____